

NDLTD and the ETD Initiative

Enhancing Graduate Education

Ohio State University/Virginia Tech Video Conference
Oct. 24, 2002

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NDLTD and the ETD Initiative
Enhancing Graduate
Education Worldwide

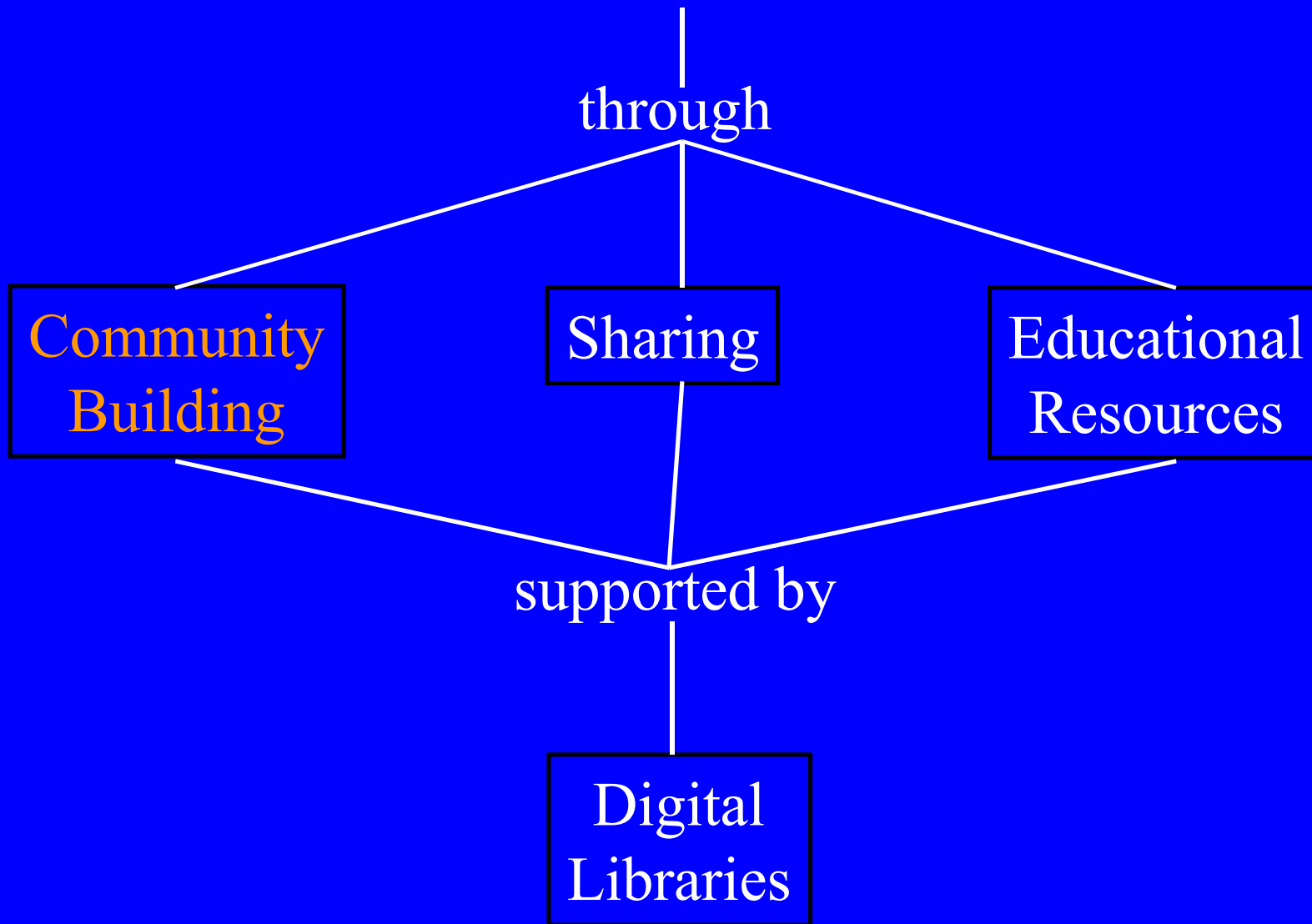
Edward A. Fox

fox@vt.edu <http://fox.cs.vt.edu>

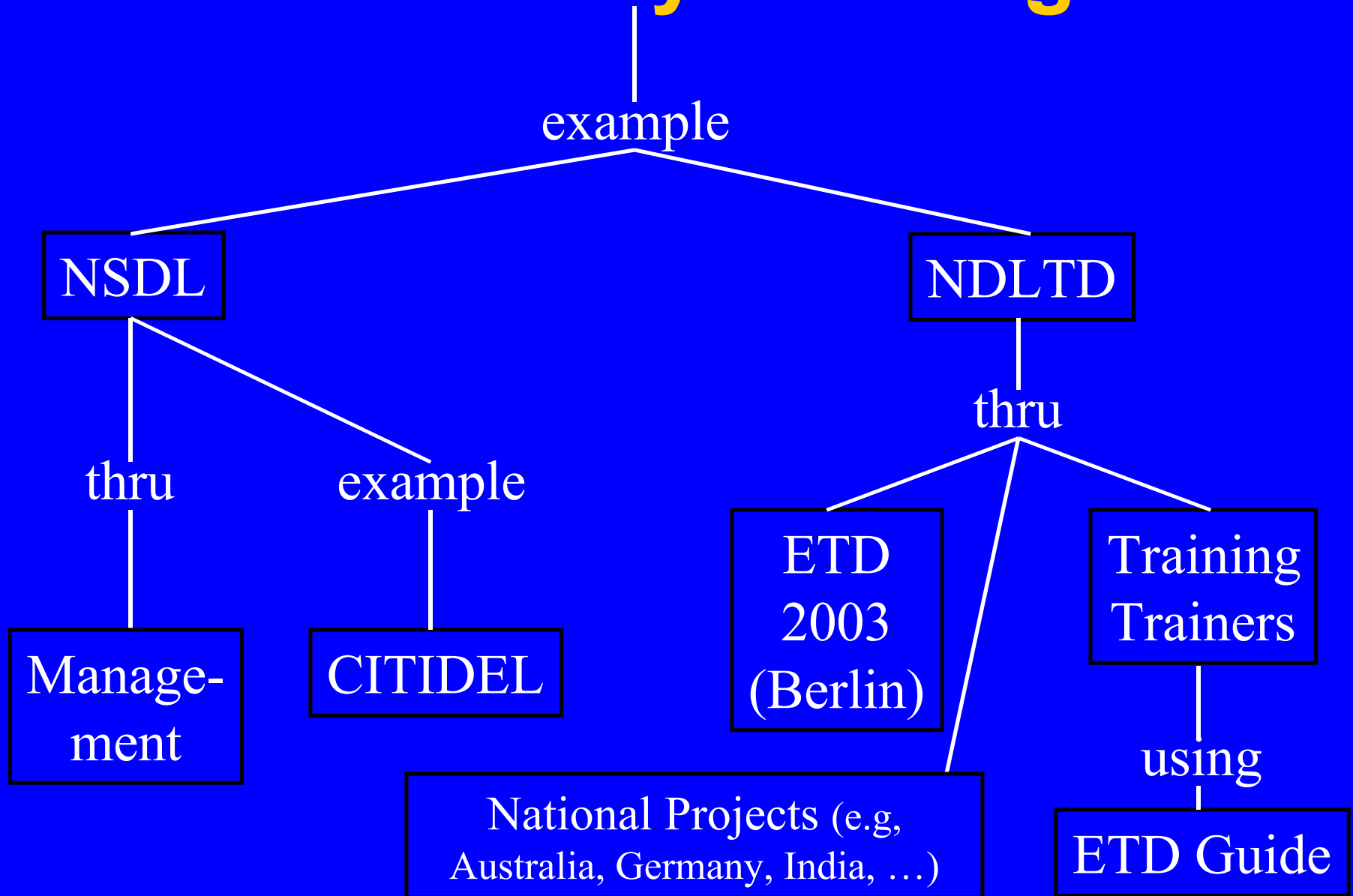
Main Messages

- Universities can improve education through digital libraries.
- National Science Digital Library, NSDL, involving courseware, led by NSF, with some 90 projects (including CITIDEL, led by Virginia Tech)
- ETDs: another, simpler effort, that allows universities to begin to deploy digital libraries to enhance education
- All universities are invited to join NDLTD, a federation of those working toward ETDs.
- Virginia Tech assists the initiative by serving as secretariat for NDLTD and supporting whatever local efforts are most appropriate

Advancing Education



Community Building



CITIDEL

www.citidel.org

- **C**omputing and **I**nformation **T**echnology
Interactive **D**igital **E**ducation **L**ibrary, an NSDL
Collection Track project
- Led by Virginia Tech
- **Partners**
 - College of New Jersey (Knox)
 - Hofstra (Impagliazzo)
 - Villanova (Cassel)
 - Penn State (Giles)

Digital Library Case Study

- **Domain:** graduate education, research
- **Genre:** ETDs=electronic theses & dissertations
- **Submission:**
<http://etd.vt.edu>
- **Collection:**
<http://www.theses.org>

Project:

Networked Digital
Library of Theses &
Dissertations

(NDLTD)

<http://www.ndltd.org>

Networked Digital Library of Theses and Dissertations

NDLTD

www.ndltd.org

Training Authors

Expanding Access

Preserving Knowledge

Improving Graduate Education

Enhancing Scholarly Communication

Empowering Students & Universities

Leader of the Worldwide ETD

(Electronic Thesis and Dissertation) Initiative

NDLTD

A diagram with a blue background. At the top is a red oval containing the text 'NDLTD' in white. Below the oval are four red pillars of varying heights, each with a white outline and a rounded bottom. From left to right, the pillars are labeled 'Grad Program', 'IT', 'Library', and 'Ed. (Tech)' in white text.

Grad
Program

IT

Library

Ed.
(Tech)

What preceded today's meeting?

- 1987 mtg in Ann Arbor: UMI, VT, ...
- 1992 mtg in Washington: CNI, CGS, UMI, VT and 10 universities with 3 reps each
- 1993 mtg in Atlanta to start Monticello Electronic Library (regional, US Southeast): SURA, SOLINET
- 1994 mtg at VT: std: PDF + SGML + multimedia objects
- 1996 funding by SURA, US Dept. of Education (FIPSE)
- 1997 meetings in UK, Germany, ...
- 1998 – 1st symposium – Memphis, UTenn (20)
- 1999 – 2nd symposium – Blacksburg, VT (70)
- 2000 – 3rd symposium – St. Petersburg, USF (225)
- 2001 – 4th symposium – Los Angeles, Caltech (200)
- 2002 – 5th symposium–BYU; 2003–Berlin; 2004–Kentucky

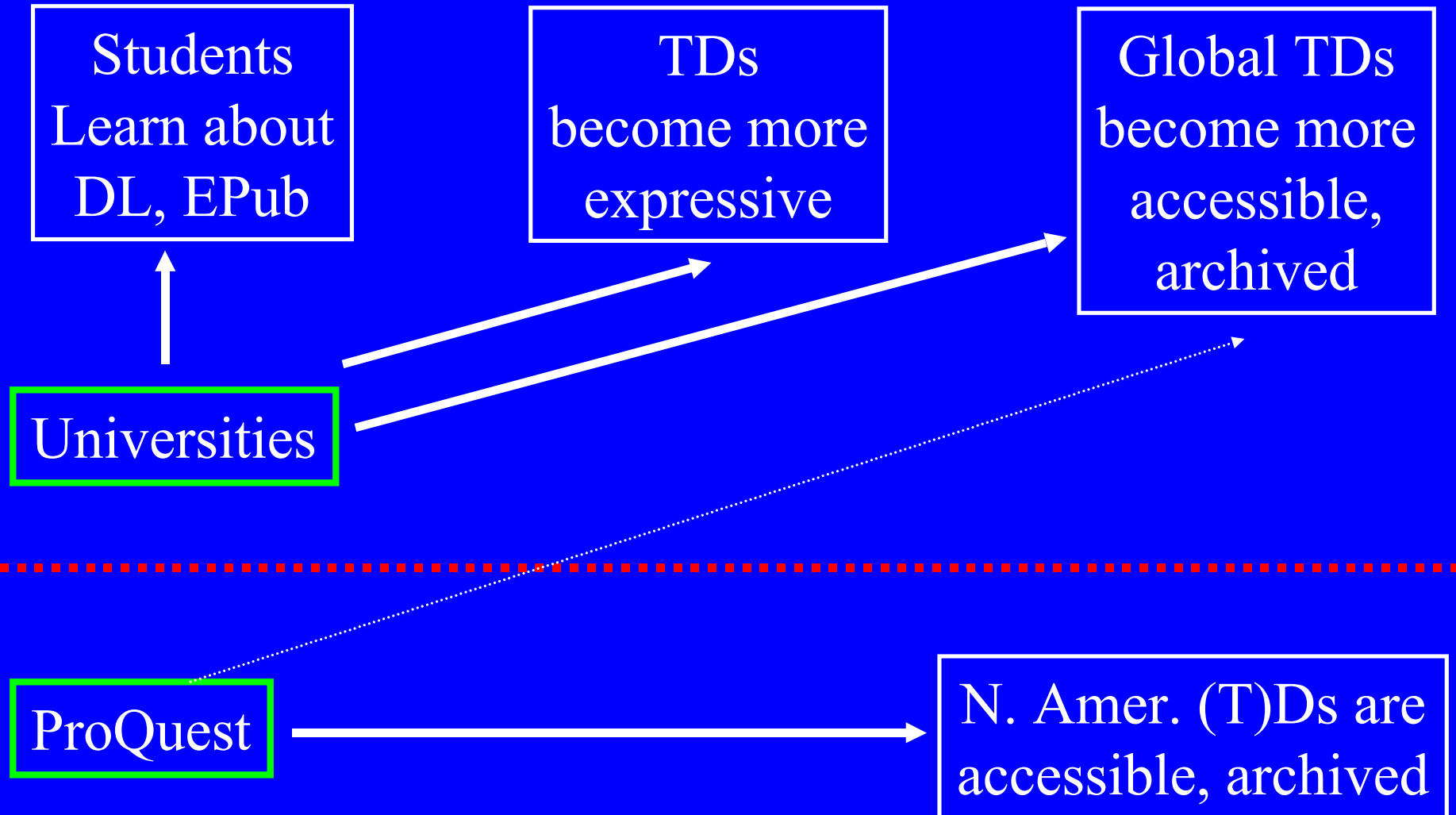
How does this relate to ProQuest?

- **Generally, they are independent decisions.**
- 1987 UMI workshop was first to explore ETDs.
- UMI wrote support letter for US Dept. of Ed. proposal.
- UMI/ProQuest continues on Steering Committee.
- UMI pilot of scanning works started 1/1/97, with free 2 yr access to front part.
- We are collaborating on:
 - **accepting electronic author submissions**
 - **standards (e.g., representation)**

ETD Initiative (and ProQuest)

Education

Access



What are the long term goals?

- 400K US students / year getting grad degrees are exposed / involved
- 200K/yr rich hypermedia ETDs that may turn into electronic portfolios (images, video, audio, ...)
- Dramatic increase in knowledge sharing: literature reviews, bibliographies, ...
- Services providing lifelong access for students: browse, search, prior searches, citation links
- Hundreds/thousands of downloads / year / work

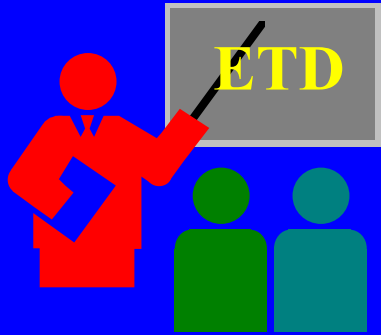
What are we doing?

- Aiding universities to enhance graduate education, publishing and IPR efforts
- Helping improve the availability and content of theses and dissertations
- Educating ALL future scholars so they can publish electronically and effectively use digital libraries (i.e., are Information Literate and can be more expressive)

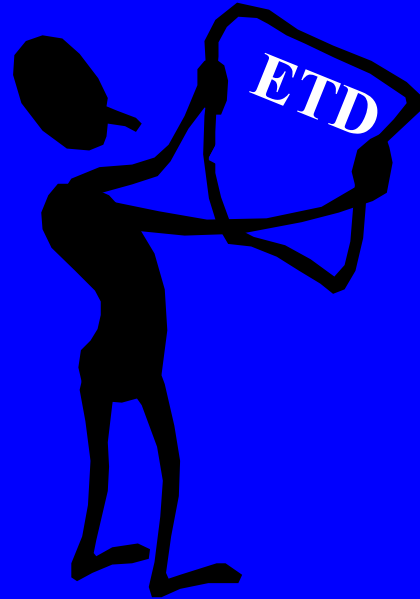
Convene Local Planning Group



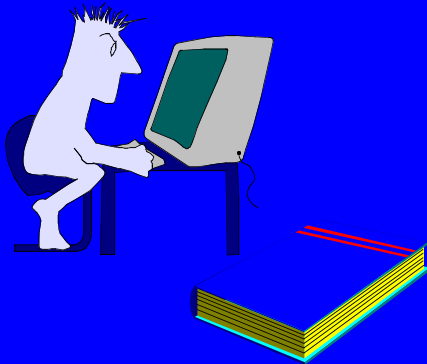
Build Local ETD Site



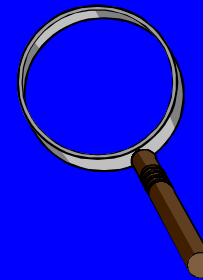
Workshop/Training



Policies

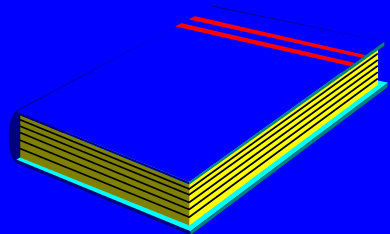


Digital Library

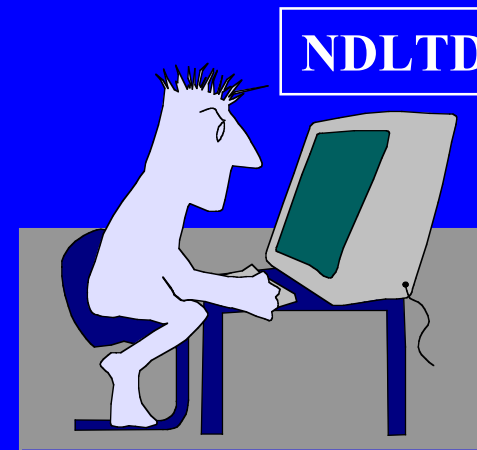
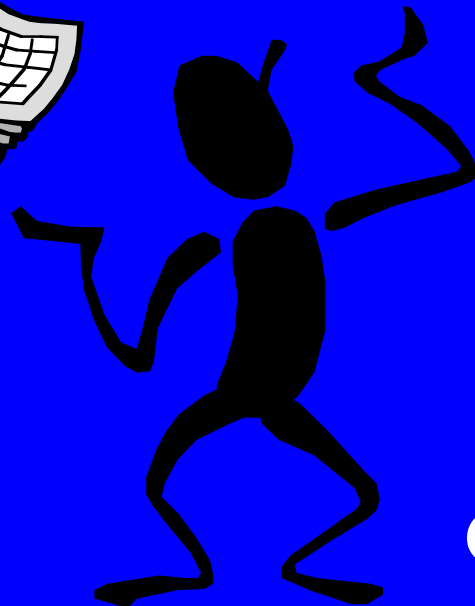
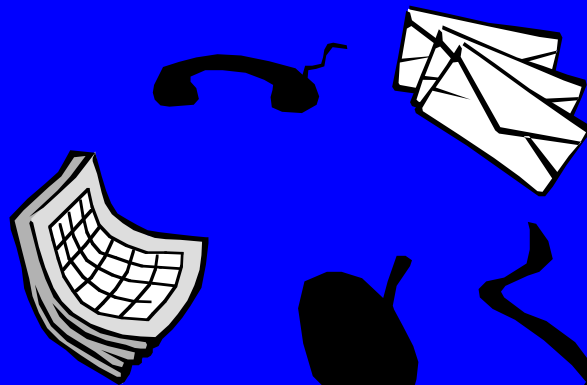


Inspection/Approval

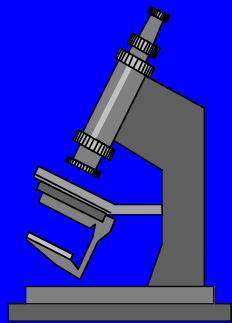
Student Prepares Thesis/Dissertation



Literature



Computer Resources

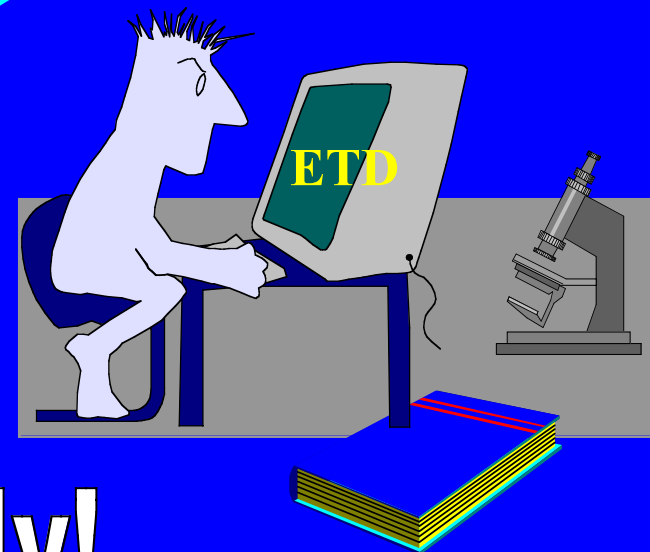


Research

Student Defends & Finalizes ETD

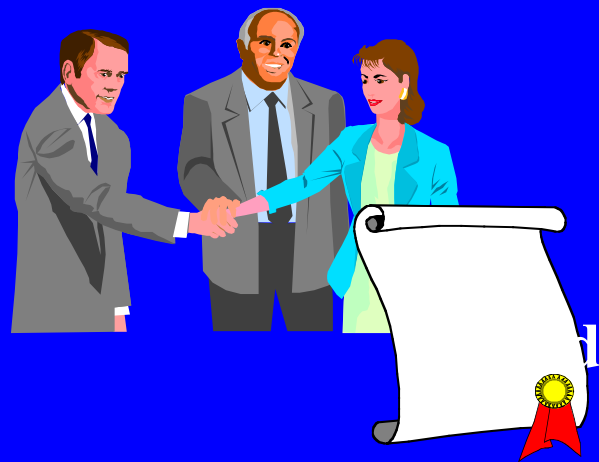


Multimedia

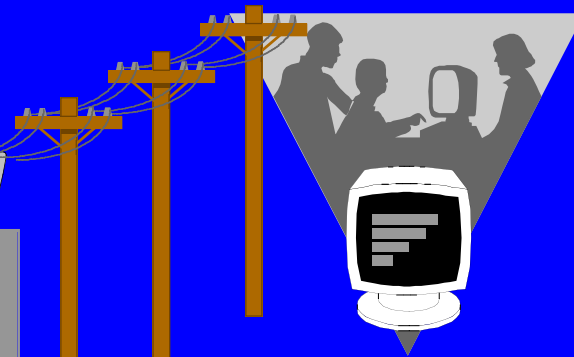
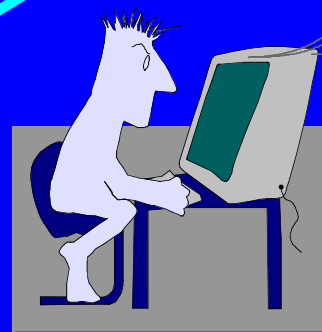


Start ETD early!

Student Gets Committee Signatures and Submits ETD

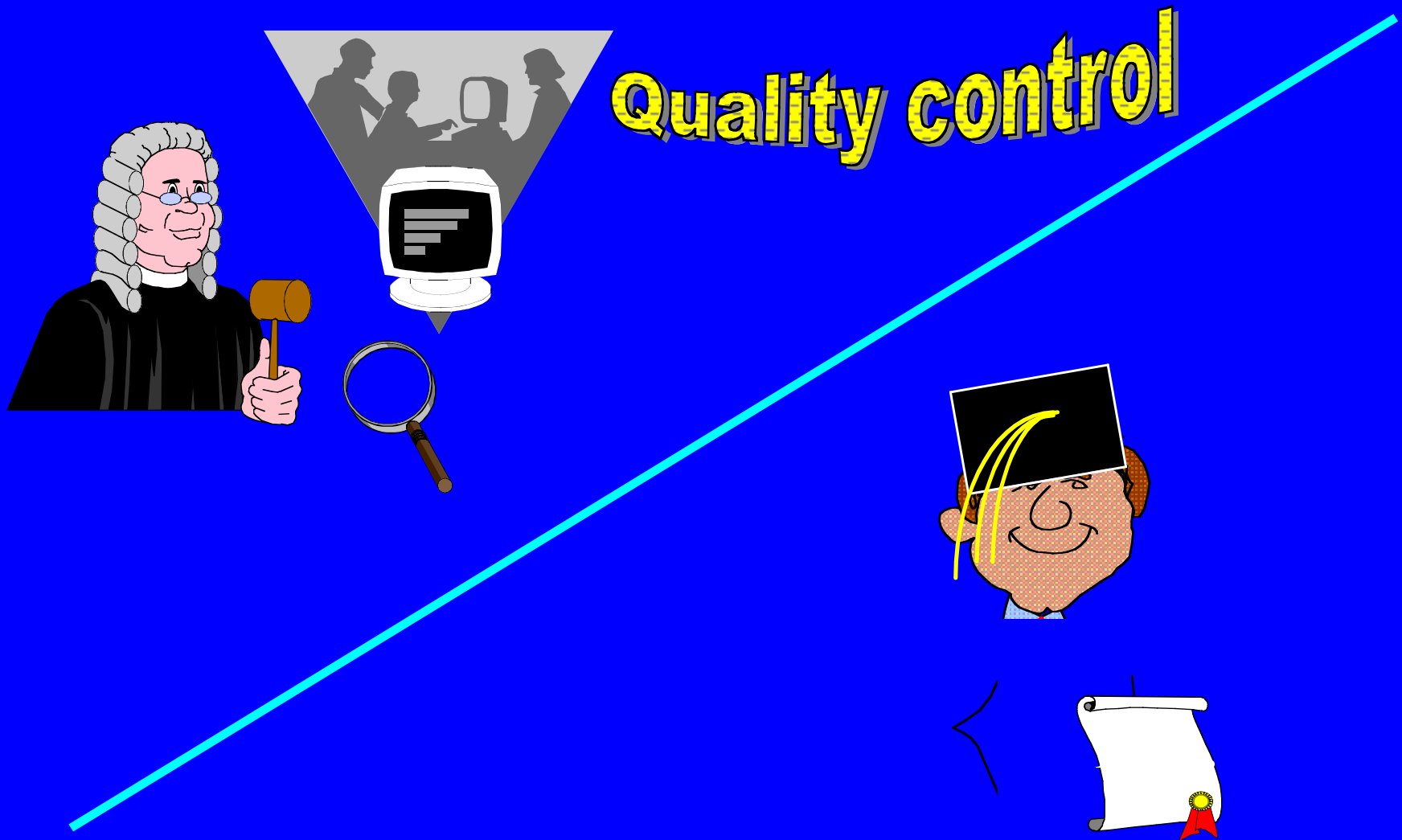


**Approval
form**

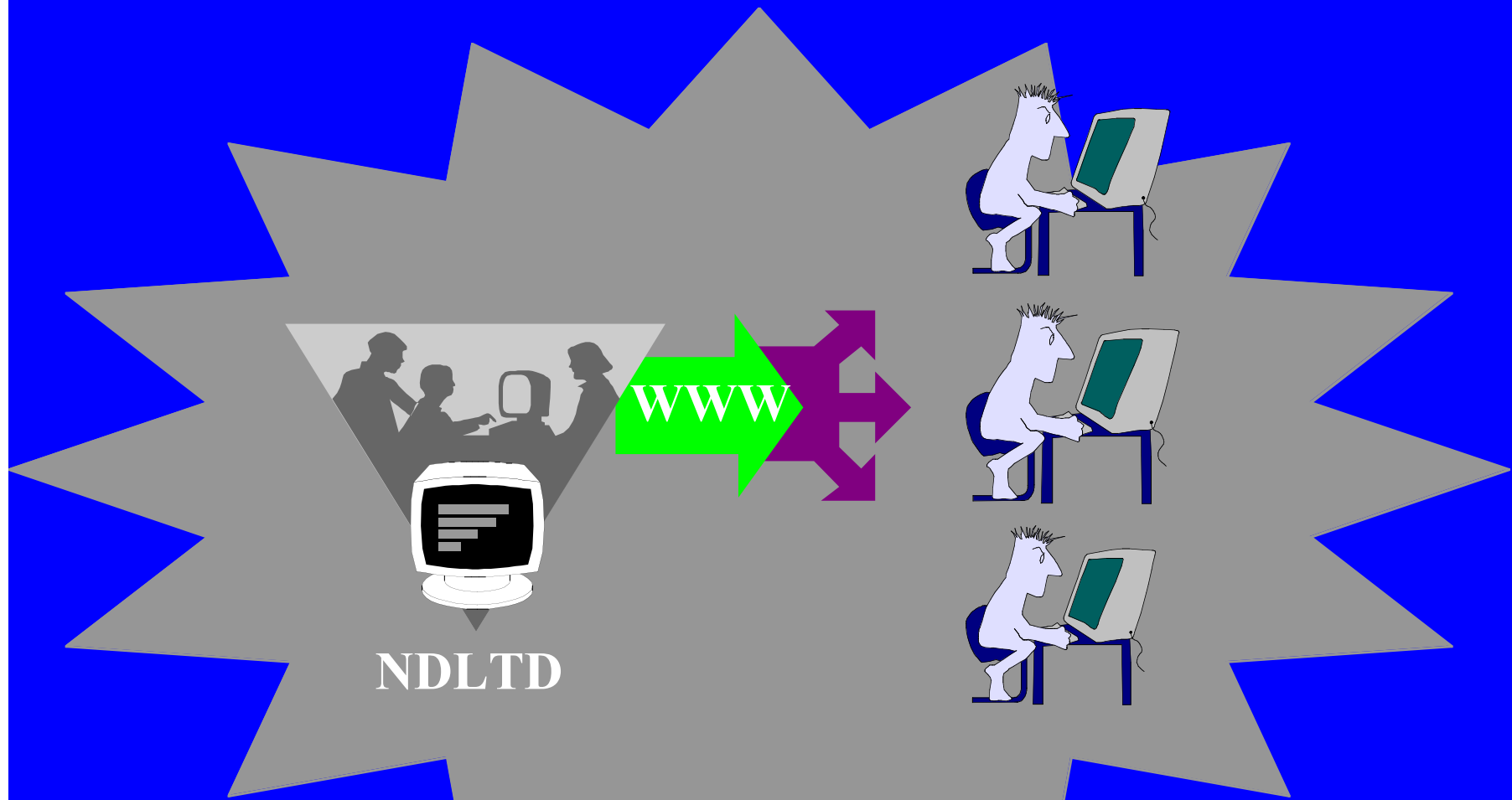


Grad School

Graduate School Approves ETD, Student is Graduated



Access is Opened to New Research



Digital library access control

Why might a university want to be involved?

- To improve graduate education / better prepare your students / increase their knowledge (epub, DLs, IPR) and visibility
- To enhance university infrastructure (DL)
- To unlock university information
- To save money for students and for the university / improve workflow
- To build an important digital library (of ETDs)

Requirement

- Build on leadership wherever it exists.
- Encourage student enthusiasm/innovation.
- Financial incentive? Awards? Advertising?
- New Media Center? FDI/GDI equivalent?
- Adapt others' solutions to reduce effort.
- Build on existing infrastructure & related work.
- Solve problems / address questions immediately.

Resources Required

- Problem solver(s)/leader(s)
- Advertising
- Training
- Pilot to nurture/expand
- Assistance: “1-stop-shopping”
- Support for OAI, Union Catalog
- Liaison with NDLTD and ETD’2003 ...

Assistance

- Software, documentation, tech support
- Email, listservs (etd-1@listserv.vt.edu)
- UNESCO sponsored etdguide.org
 - English in 2001, Spanish&French in 2002
 - Training sessions in Latin America ...
- Marcel Dekker book soon in press
- www.ndltd.org

National / Regional Projects

- **Australia: 13 universities**
- **Germany**
 - Humboldt University (lead)
 - 3 other universities
 - 5 learned societies: Math, Physics, Chemistry, Sociology, Education
 - 1 computing center
 - 2 major libraries
- **27 Countries represented in NDLTD**
- **OhioLINK: 79 colleges/univs**
 - Only a few (e.g., Miami) are NDLTD members
- **Consorci de Biblioteques Universitàries de Catalunya, as group, www.cbuc.es: 9 sites**
- **India**
- **Korea**
- **Brazil**
- **UK (British Library, JISC, Edinburgh)**
- **UNESCO (especially Latin America, Eastern Europe, Africa)**

US University Members (63)

- Air University (Alabama)
- Baylor University
- Boston College
- Brigham Young University (part, whole)
- Caltech -- required July 2002
- Clemson University
- College of William & Mary
- Concordia University (Illinois)
- Drexel University
- Duquesne University
- East Carolina University
- East Tenn. State U. – require fall 2000
- Florida Institute of Technology
- Florida International University
- Florida State University
- George Washington University
- Georgetown University
- Johns Hopkins University
- Louisiana State University -- required Spring 2002
- Marshall University (W. Va.)
- Miami University of Ohio
- Michigan Tech
- Mississippi State University
- MIT
- Montana State University
- Naval Postgraduate School (CA)
- New Jersey Inst. of Technology
- New Mexico Tech
- North Carolina State U. -- required Sept. 2002
- Northwestern University
- Penn. State University
- Regis University
- Rochester Institute of Tech.
- Texas A&M
- University of Central Florida
- U. of Colorado Health Science Center
- U. of Florida -- required Aug. 2001
- U. of Georgia -- required Fall 2001
- University of Hawaii, Manoa
- U. of Illinois, Urbana-Champaign
- U. of Iowa
- U. of Kentucky (required in CS)
- U. of Maine (required in Spatial Info Sci, Engin)
- University of Missouri-Columbia
- U. of Nevada, Las Vegas
- U. of New Orleans
- U. of North Texas – required since 8/99
- U. of Oklahoma
- U. of Pittsburgh
- U. of Rochester
- U. of South Florida -- required Aug. 2002
- U. of Tennessee, Knoxville
- U. of Tennessee, Memphis
- U. of Texas at Austin – required in 2001
- U. of Virginia
- U. of West Florida
- U. of Wisconsin - Madison
- Vanderbilt U.
- Virginia Commonwealth U.
- Virginia Tech - required since 1/97
- Wake Forest U.
- West Virginia U. - required fall 1998
- Western Michigan U.
- Worcester Polytechnic Inst.

Institutional Members

- **British Library**
- **Cinemia**
- **Coalition for Networked Information (CNI)**
- **Committee on Institutional Cooperation (CIC)**
- **Consorti de Biblioteques Universitàries de Catalunya**
- **Diplomica.com**
- **Dissertation.com**
- **Dissertationen Online (Germany)**
- **ETDweb, a Division of Answer4.com**
- **Ibero-American Science & Technology Education Consortium (ISTEC)**
- **MathDISS International**
- **National Documentation Centre (NDC), Greece**
- **National Library of Canada**
- **National Library of Portugal (for all universities)**
- **OCLC Online Computer Library Center**
- **OhioLINK**
- **Organization of American States (SEDI/OAS)**
- **Southeastern Library Network (SOLINET)**
- **UNESCO (www.unesco.org/webworld/etd)**

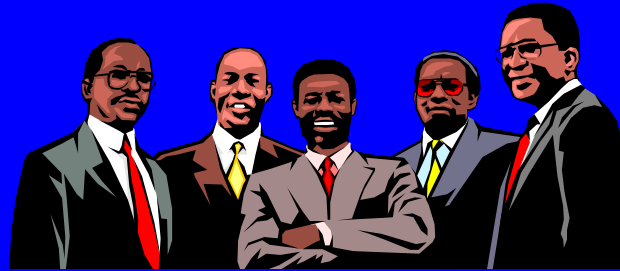
Proposed NDLTD Board

- Africa (Felix Ubogu)
- Asia (Shalini Urs, India)
- Australia (Tony Cargnelutti)
- Europe (Peter Schirmbacher, Germany)
- North America (Gail McMillan, USA)
- South America (Ana Pavani, Brazil)
- Secretary; Treasurer
- Annual Conference – past, current chairs
- Secretariat
 - Executive Director – Ed Fox

NDLTD Committees

- By-laws (Vinod Chachra)
 - Incorporation/NGO (Jim Schaefer)
- Promotion (John Hagen, Tony Cargnelutti)
- Standards (Thom Hickey)
- Awards (Jude Edminster, Delphine Lewis)
- Conferences
 - ETD'2003: Berlin: Peter Schirbacher
 - ETD'2004: UKentucky: Beth Kraemer/Suzie Allard
 - ETD'2005 – need proposals!

Access Possibilities



Web
search
engines

www.
theses.
org

www.
openarchives.
org

library
catalog
clients

3rd
Party
Services
(e.g.,
UMI)

Virginia
Tech

MIT

National
Library of
Portugal

CBUC
(Spain)

Ohio
Link

National
Projects:
AU, GE, ...

Metadata vs. Data

- **Data** refers to digital objects or digital representations of objects
- **Metadata** is information about the objects (e.g. title, author, etc.): descriptive, interpretive, administrative, ...
- Many digital library efforts, including the Open Archives Initiative (OAI), focus on metadata, with the implicit understanding that metadata usually contains useful links to the source digital objects
- Purists would argue metadata is just data

ETD-MS

- **ETD Metadata Standard**
 - **XML-encoded metadata standard (content and encoding) for Electronic Theses and Dissertations (ETDs)**
 - **in part conforming to Dublin Core (DC)**
 - **using UNICODE**
 - **(optionally / later using RDF)**
- **Well specified relationship with MARC**

NDLTD Members and ETD-MS

- **NDLTD members**
 - **Share metadata for their ETDs**
 - **Providing that in either ETD-MS**
 - **Or if they use a version of MARC locally, work to have that eventually shared in either MARC21 or UNIMARC**
 - **Run OAI, either locally or in consortia, so their metadata can be harvested, according to necessary terms and conditions**

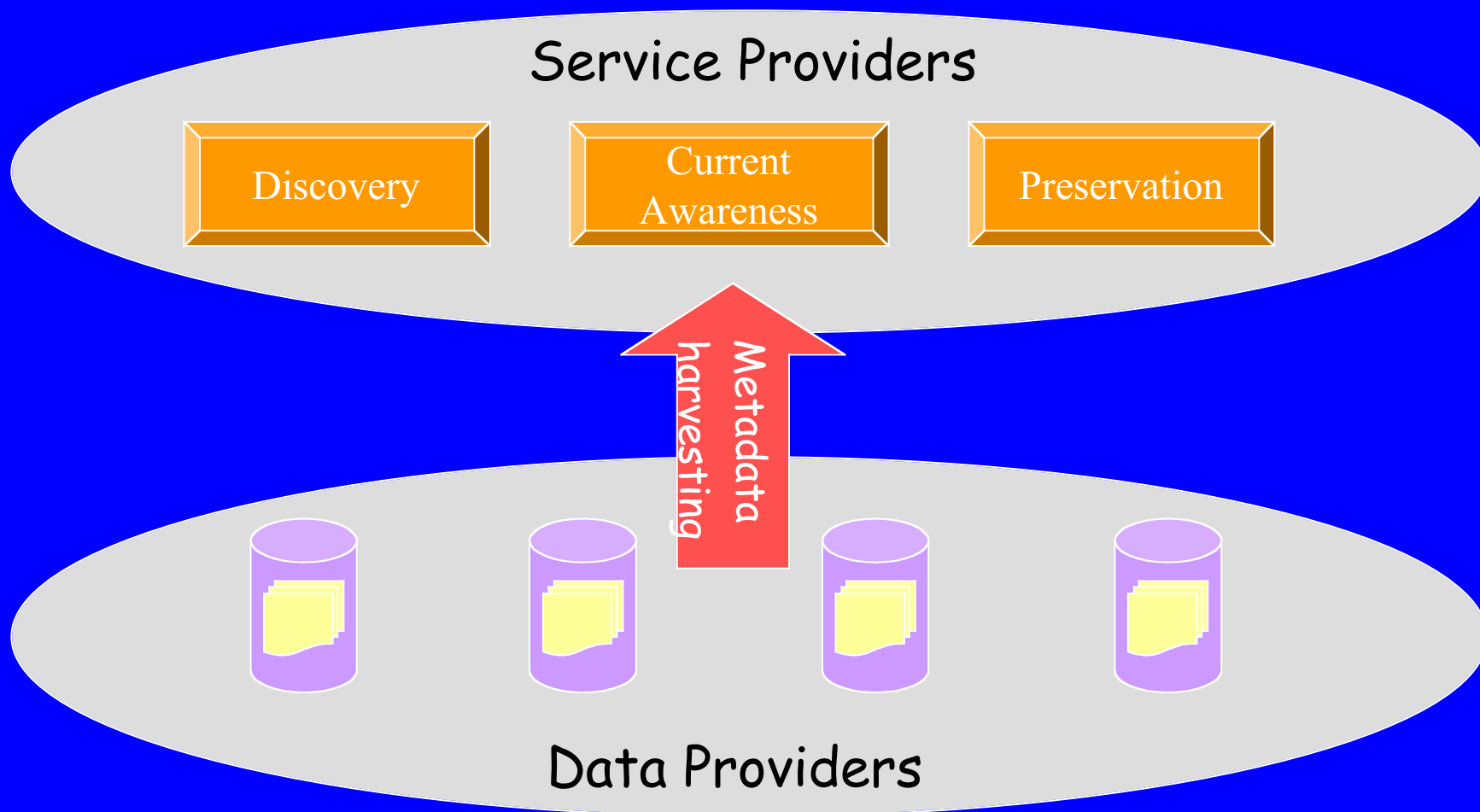
Open Archives Initiative: OAI

www.openarchives.org

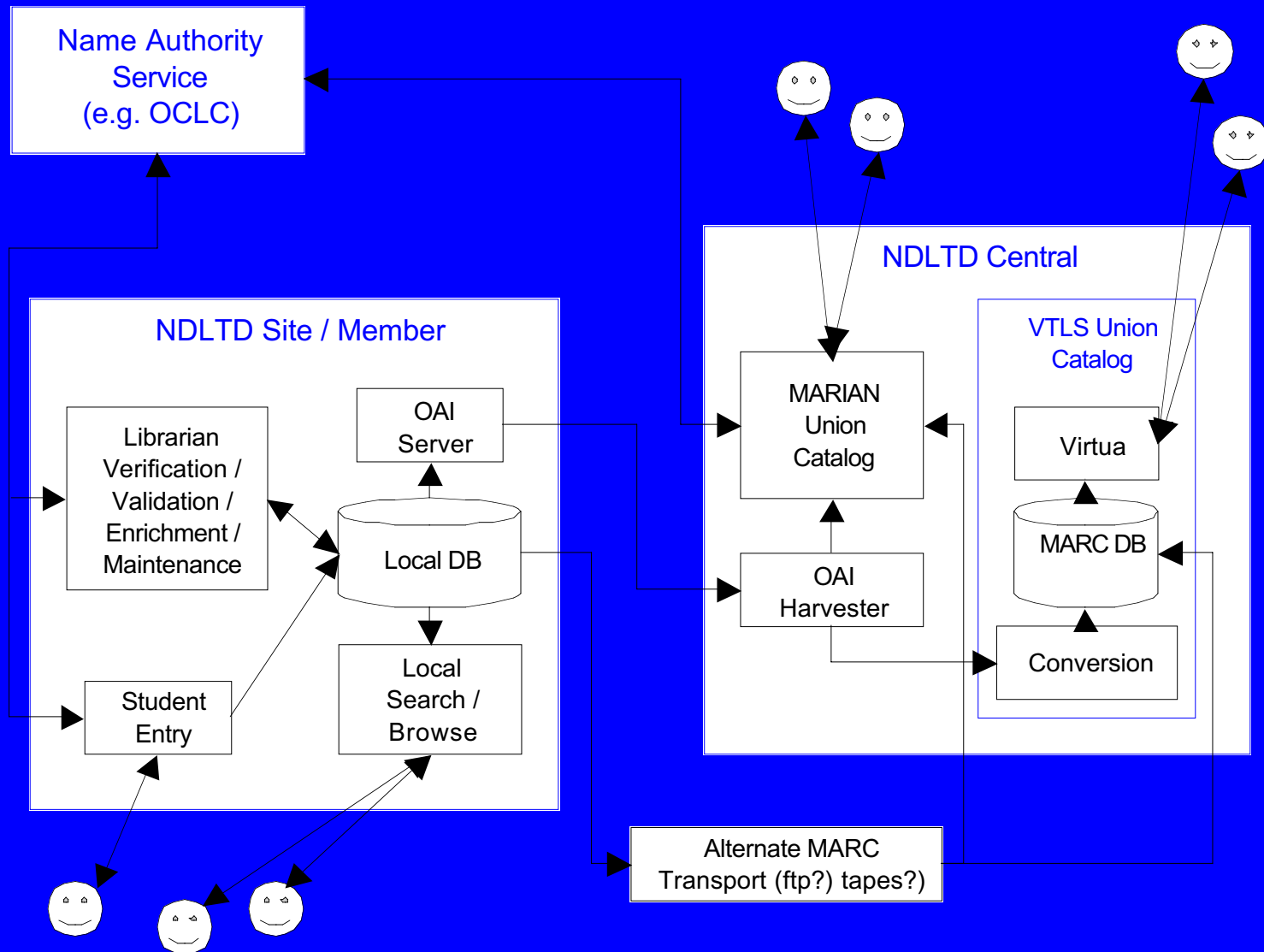


openarchives@openarchives.org

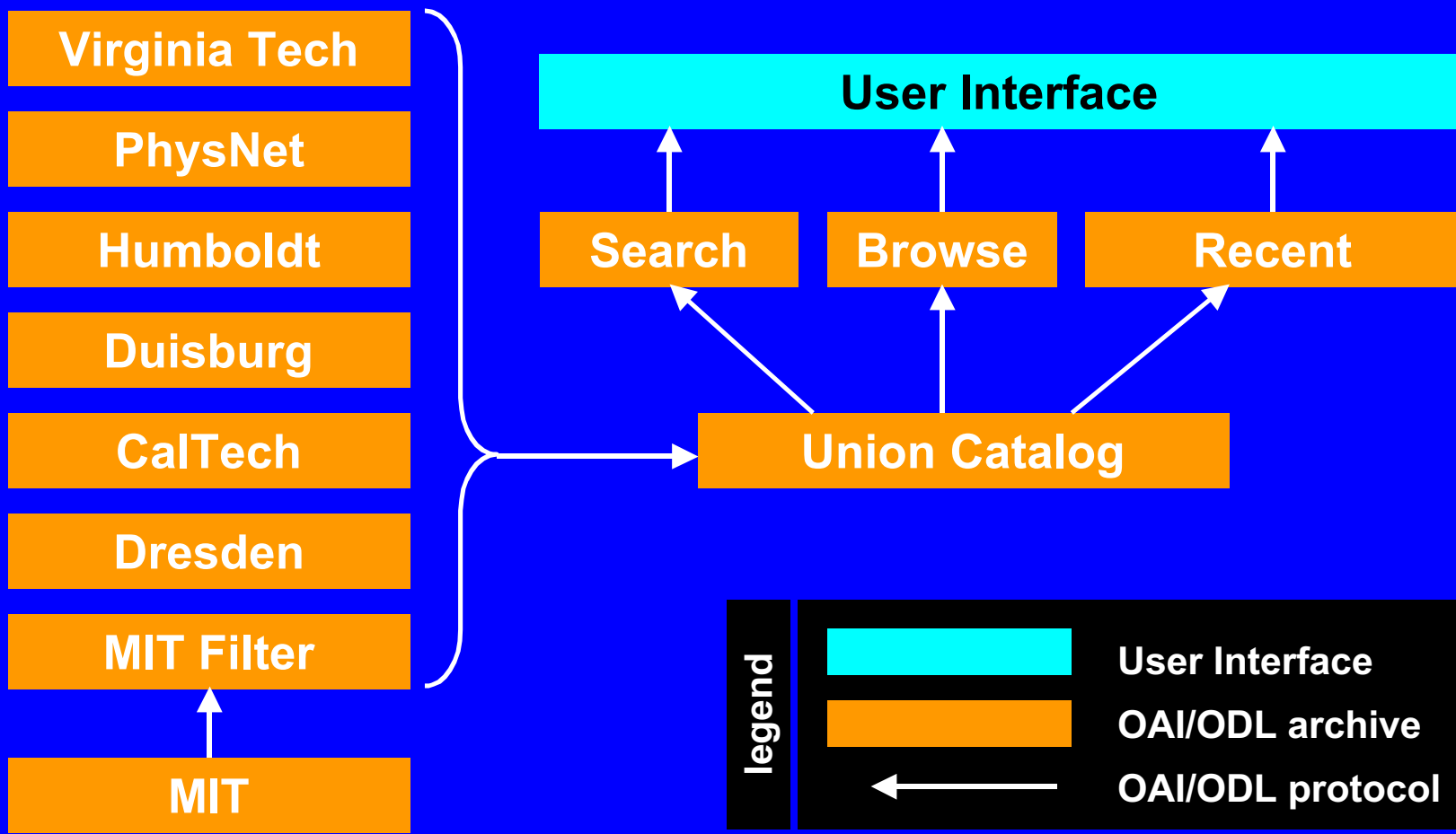
The World According to OAI



Example: Details



Example Architecture (NDLTD)



ODL Demonstration - FrontPage



Electronic Thesis/Dissertation OAI Union Catalog

[Home](#)
[Search](#)
[Browse](#)
[About](#)
[How to Join](#)

Related Sites

- [NDLTD](#)
- [Theses.org](#)
- [Open Archives Initiative](#)

Current Sites

1. [Caltech](#)
2. [PhysNet](#)
3. [Virginia Tech](#)
4. [Humboldt-Universität zu Berlin](#)
5. [Gerhard-Mercator-](#)

Some Recent Additions to our Collection

- ASSESSING AND EVALUATING RECREATION RESOURCE IMPACTS: SPATIAL ANALYTICAL APPROACHES, *Leung, Yu-Fai, Virginia Polytechnic Institute and State University, 1998-04-30* [[More Info](#)]
- The Ontology of Persistence, *Love, Shanon, Virginia Polytechnic Institute and State University, 2001-06-25* [[More Info](#)]
- Virginia Save Our Streams (SOS): Volunteers' Motivations for Participation and Suggestions for Program Improvement, *Haas, Steven Christopher, Virginia Polytechnic Institute and State University, 2000-08-03* [[More Info](#)]

Quick Search

Query :

Quick Browse

Institution : Year :
Sort By :

ODL Demonstration - Search



Electronic Thesis/Dissertation OAI Union Catalog

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5. [Gerhard-Mercator-Universität](#)

Search Results

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1. Characterizing Web Response Time

Liu, Binzhang M.S.

- **Abstract :** It is critical to understand WWW latency in order to design better HTTP protocols. In this study we characterize Web response time and examine the effects of proxy caching, network bandwidth, traffic load, persistent connections for a page, and periodicity. Based on studies with four workloads, we show that at least a quarter of the total elapsed t...

- **Date :** 1998-05-07

- [[More Info](#)] [[Go To Document](#)] [[Find Similar Documents](#)]

2. Chemical Interferences on the Atomization Yield of High Reduction Potential Elements - Signal Suppression in the Plasma Source Spectrometry

LIU, Jian, jianliu78@yahoo.com, 1960-11-04, Changchun, CHINA

- **Date :** 2001-03-08

- [[More Info](#)] [[Go To Document](#)] [[Find Similar Documents](#)]

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5. [Gerhard-Mercator-Universität Duisburg](#)
6. [Technische Universität Dresden](#)

Browse ETDs

Institution : Year :

Sort By :
Aarhus University, Chemistry Department
California Institute of Technology
Caltech Library System
Forskningscenter Risoe
Gerhard-Mercator-Universität Duisburg
Humboldt-Universität zu Berlin
Massachusetts Institute of Technology
Other
Risoe National Laboratory
Technische Universität Dresden
Universitaet Stuttgart
Virginia Tech

[10](#) > [11](#) >> [361](#)] [Next](#)

1. Test of the linked bibliography capability.

2. Microstructure and Crystallization Behavior in Bulk Glass Forming Alloys.

Bossuyt, Sven

- **Abstract :** The solidification microstructure in wedge-shaped castings of Cu-Ni-Ti-Zr glass forming alloys is investigated, while the composition was systematically varied. Near the critical thickness for glass formation, a spatially inhomogeneous dispersion of nanocrystals is observed, where spherical regions contain a much higher density of nanocrystals than...

- **Date :** 2001-07-13

- [[More Info](#)] [[Go To Document](#)] [[Find Similar Documents](#)]

3. All-Optical Logic Circuits based on the Polarization Properties of Non-Degenerate Four Wave Mixing

Some recent additions

- ETD individuals supported
 - <http://etdindividuals.dlib.vt.edu:9090>
- ETD discussion (e-prints)
 - <http://ndltdpapers.dlib.vt.edu:9090>
- Conference papers and presentations
 - <http://www.ndltd.org/WVUproc.htm>

What are plans at VT?

- LOCKSS welcomed us
 - Lots of Copies Keeps Stuff Safe
- MARIAN: harvest, crawl/scrape, fed search
- Metadata crosswalks and format converters
- XML schema for ETDs
- Open Digital Libraries: add services easily!
 - <http://oai.dlib.vt.edu/odl>

Union catalog? (OCLC)

- OCLC will expand the OAI data provider on TDs
- Will get data from WorldCat
- Will harvest from all who contact them
- Need DC and either ETD-MS or MARC
- Will have a set for ETDs

Union catalog? (VTLS, VT)

- VTLS will enhance search/browse service for ETDs
 - Will harvest from OCLC's set of ETD records
 - Will receive through other mechanisms, too
 - Will work with MARC-21 and ETD-MS
- VT will continue to offer experimental services

Why ETD? Short Answer

- For Students (thus reaching all future scholars!):
 - Gain knowledge and skills for the Information Age
 - Richer communication (digital information, multimedia, ...)
- For Universities:
 - Easy way to enter the digital library field and benefit thereby
- For the World:
 - Global digital library – large, useful, many services
- General:
 - Save time and money
 - Increased visibility for all associated with research results

The Process? Short Answer

- For Students:
 - Plan on ETD from day 1
 - Secure knowledge from: workshops, online info, colleagues
 - Work with faculty to plan approach
 - PDF? XML? TEI? Multi/hypermedia? Data sets? Viz?
 - Get signed approval form: access, ©, proxy assignment
 - After defense and approval, submit ETD to university
- For Universities:
 - Form teams
 - Adapt solutions from work at other universities, attend ETD conferences
 - Pilot >>> Option >>> Requirement

Partial Summary

- Universities can improve education through digital libraries.
- NSDL (National Science Digital Library) is a massive effort (> 90 projects) involving courseware, led by NSF, (including CITIDEL, led by Virginia Tech).
- The movement toward ETDs is another, simpler effort, that allows universities to deploy digital libraries to enhance education – benefiting & saving at the same time.
- All universities are invited to join NDLTD, a federation of those working toward ETDs.
- Virginia Tech serves as secretariat for NDLTD, aiding the initiative, which has many aspects and services, aimed to support whatever local efforts are most appropriate.

Selected Links

- CITIDEL
 - www.citidel.org
- NDLTD
 - www.ndltd.org
- NSDL
 - www.nsdl.org
- Virginia Tech Digital Library Courseware
 - <http://ei.cs.vt.edu/~dlib>
- Virginia Tech Digital Library Research Laboratory (DLRL)
 - <http://www.dlib.vt.edu>
 - (5S, 5SL, AmericanSouth.Org, CSTC, ENVISION, MARIAN, NDLTD, NSDL, OAI, ODL)
- Repository Explorer
 - http://purl.org/net/oai_explorer

ETDs and Libraries

Gail McMillan

Digital Library and Archives, University Libraries
Virginia Polytechnic Institute and State University

Ohio State University/Virginia Tech Video Conference
October 24, 2002

Goals for Libraries and Archives

- Improve services
 - Better turn-around time
 - Always available
- Reduce work (save \$)
 - Catalog from etext
 - Eliminate handling
- Save space

ETDs at Virginia Tech

- Partnership: Library, Graduate School, and Faculty
- Approved by university governance- Mar.1996
- Full implementation- Jan.1997
- Web submission
 - Students: <http://etd.vt.edu>
 - Programmers: <http://scholar.lib.vt.edu/ETD-db/>
- Workshops for students (and faculty)
- Over 4,360 ETDs approved

How are ETDs managed?

- Graduate student creates ETD
 - Word processor, multimedia
 - Saves as PDF, usually
- Graduate student submits ETD
 - Directly to library server/permanent archive
 - Archiving fee replaces binding fee
- Graduate School approves
 - E-mails author, advisor, UMI (VT scripts)
 - Authors/advisors prescribe Internet access
- Library catalogs and archives
- UMI downloads

A CONTEMPORARY TURKISH COFFEEHOUSE DESIGN
BASED ON HISTORIC TRADITIONS

by

Timur Oral

Thesis submitted to the Faculty of the
Virginia Polytechnic Institute and State University
in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE

in

Housing, Interior Design, and Resource Management

APPROVED:

Jeanette Bowker, Chair
Muzaffer Uysal
Eric Wiedegreen

April 16, 1997
Blacksburg, Virginia

Keywords: Turkish, coffee, coffeehouse, tradition, culture, franchising, shop design

<http://scholar.lib.vt.edu/theses/available/etd-2227102539751141/>



Chapter 1

Introduction: The shifting paradigm

Accessibility in landscape architecture and architecture is too often only approached in terms of its formal implications. How can this landscape or this building, we ask, be brought into compliance with the accessibility codes, or be initially designed as 'accessible'?'¹ These texts are an attempt to expand the limits of that conception, to engage the social and cultural agencies which influence our concept of accessibility.

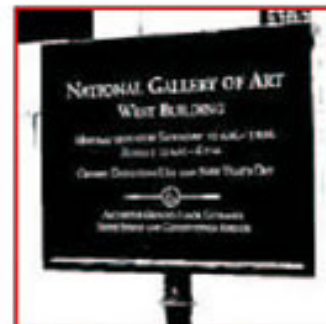
This is, inevitably, no less of a fiction than the current approaches to accessibility, and it is difficult to propose that what is written here is in opposition to some current way of thinking – as if I, or it, could ultimately transcend the conditions of the 'reality' from which it develops. Nor can I say that I have located all of the 'right' problems, although such an activity is definitely on the agenda – to challenge the complacent and the regressive, to question social conditions, to resist the structures and institutions that serve the powerful and perpetuate powerlessness. But, as author Lynn Tillman says, "I must contribute daily, involuntarily, but in small and big ways toward keeping the world the way it is" (*Critical Fiction* 2-3).²

- agency
- fiction
- text.1

¹ Throughout the text, single quotes are used to suggest a questioning of the concept within the quotes. These "scare quotes" as writer Susan Wendell calls them are intended to bring to the reader's attention those concepts or ideas that the 'author' believes are in need of examination and critique. They are many times words used in everyday language which have come to have certain implications that the author intends to challenge and they are many times concepts which can have negative implications associated with them. They are also occasionally used as quotes within direct quotes and unless otherwise noted should be taken as such when they appear within directly quoted material.

² This discussion of the positioning of the author is based on a commentary by Tillman in *Critical Fiction / Critical Self*. Says Tillman, "I am wary or shy of proposing my fiction as written in opposition to, or to pronounce that I write differently, as if I – or it – could transcend conditions of birth and development – its and mine – and was somehow able to escape them. Or even that I knew, and the writing could locate, the right problems. It's certainly on my agenda – to challenge the complacent, to question the nation, familial, racial and sexual arrangements, to resist structures and institutions that serve the powerful and perpetuate powerlessness. But as I wrote of the narrator in my novel *Motion Sickness* – an American moving from place to place in foreign lands – 'I must contribute daily, involuntarily, but in small and big ways toward keeping the world the way it is.' (The question of agency haunts the novel.)" (2-3).

I – or it – could transcend conditions of birth and development – its and mine – and was somehow able to escape them. Or even that I knew, and the writing could locate, the right problems. It's certainly on my agenda – to challenge the complacent, to question the nation, familial, racial, and sexual arrangements, to resist structures and institutions that serve the powerful and perpetuate powerlessness. But, as author Lynn Tillman says, "I must contribute daily, involuntarily, but in small and big ways toward keeping the world the way it is" (*Critical Fiction* 2-3).²



1

1.2

Library Resources

- Hardware: server
 - Maintenance and security
 - Started small: NeXt 3.3 (HP; 1989-97)
 - Grew: Sun dual-processor Enterprise 250--Solaris 2.7 (Apache web server)
- Software
 - Submission scripts written by DLA
 - Includes e-mail notifications to authors, advisors, UMI
 - Use it too: <http://scholar.lib.vt.edu/ETD-db/>
 - Log files analyzed with Analog
 - Survey scripts written by DLA
 - Data from authors and readers
 - Use it too: <http://lumiere.lib.vt.edu/surveys/>
- Search Engine
 - Started small: freeWAIS >> Grew: InfoSeek's ULTRASEEK

Financial Concerns

- At VT: start-up costs = \$0
 - On-hand staff, equipment, software, freeware
- From zero base: estimate \$65,000
 - \$24,000 Staff (part time)
 - \$36,000 Equipment
 - \$15,000 Software

<http://scholar.lib.vt.edu/theses/data/setup.html>

Costs/Savings at VT

- Graduate School stopped shipping to the library 3000 copies of paper TDs/year
- Library stopped handling (e.g., shipping, binding, shelving, and circulating) 3000 copies of TDs/year
- 166 ft of shelf space saved yearly by the Library
- VT used existing equipment in Library (vs. start-up costs for staff, hardware and software)

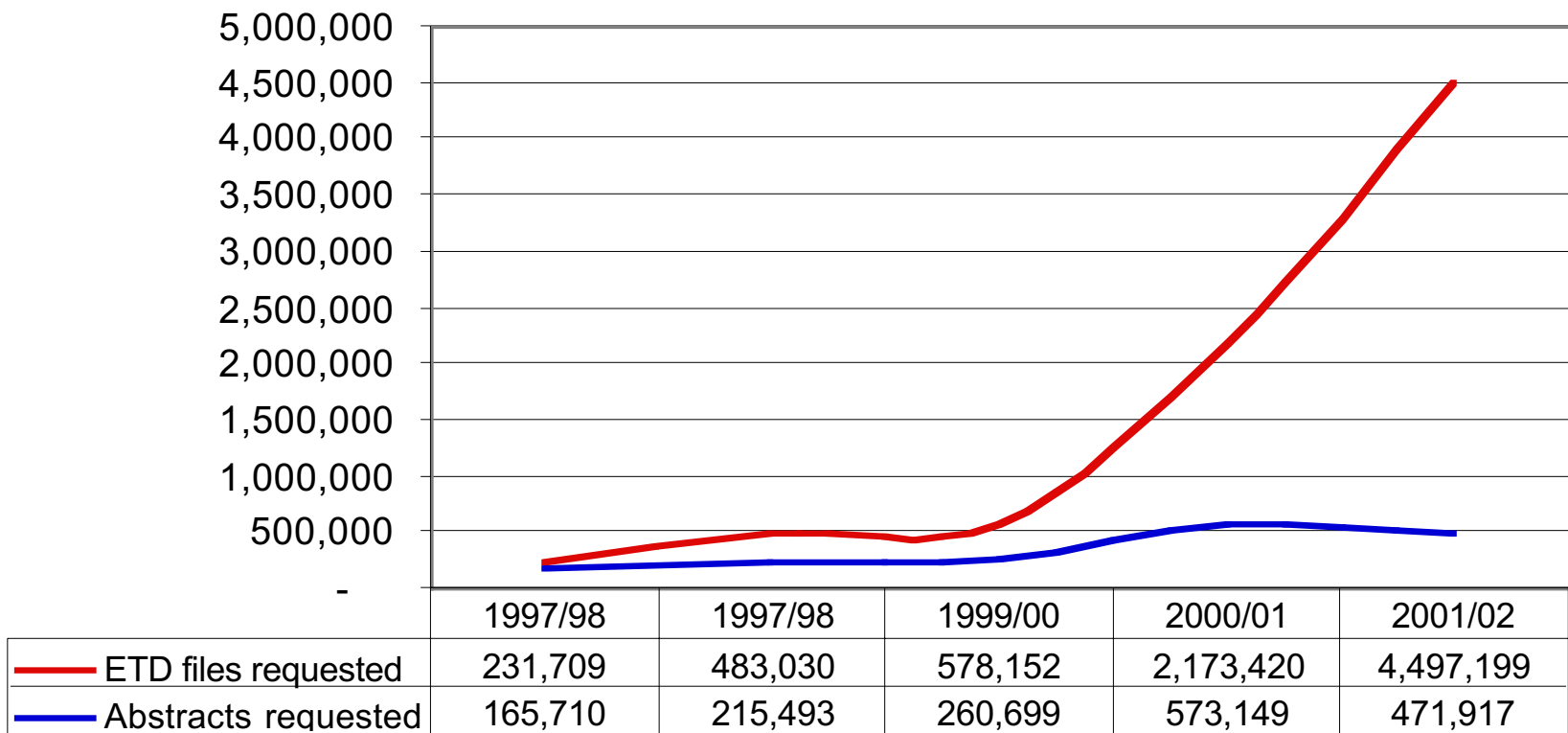
Digital Library Benefits:

Low margin, high use

- Incorporate ETDs with other digital library activities
 - Ejournals, online class materials, digital images, etc.
 - Additional equipment, staff may not be necessary
 - <http://scholar.lib.vt.edu/theses/data/setup.html>
- Use VT programs, scripts, etc.
 - <http://scholar.lib.vt.edu/ETD-db/>
- Online accesses vs. circulation of copies
 - VT theses 1990-1994, combined average circulation per copy: 2.24/yr
 - VT dissertations 1990-1994, combined average circulation per copy: 3.2/yr

Access to VT's ETDs

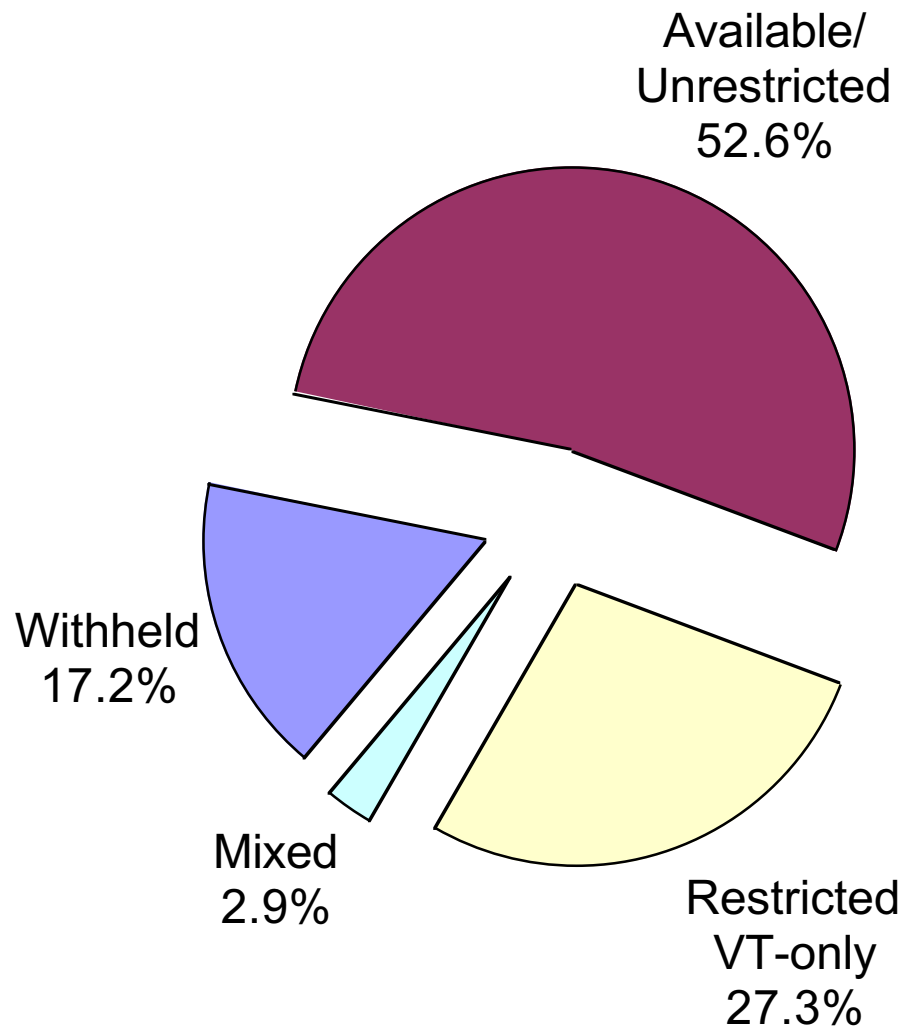
<http://scholar.lib.vt.edu/theses/>



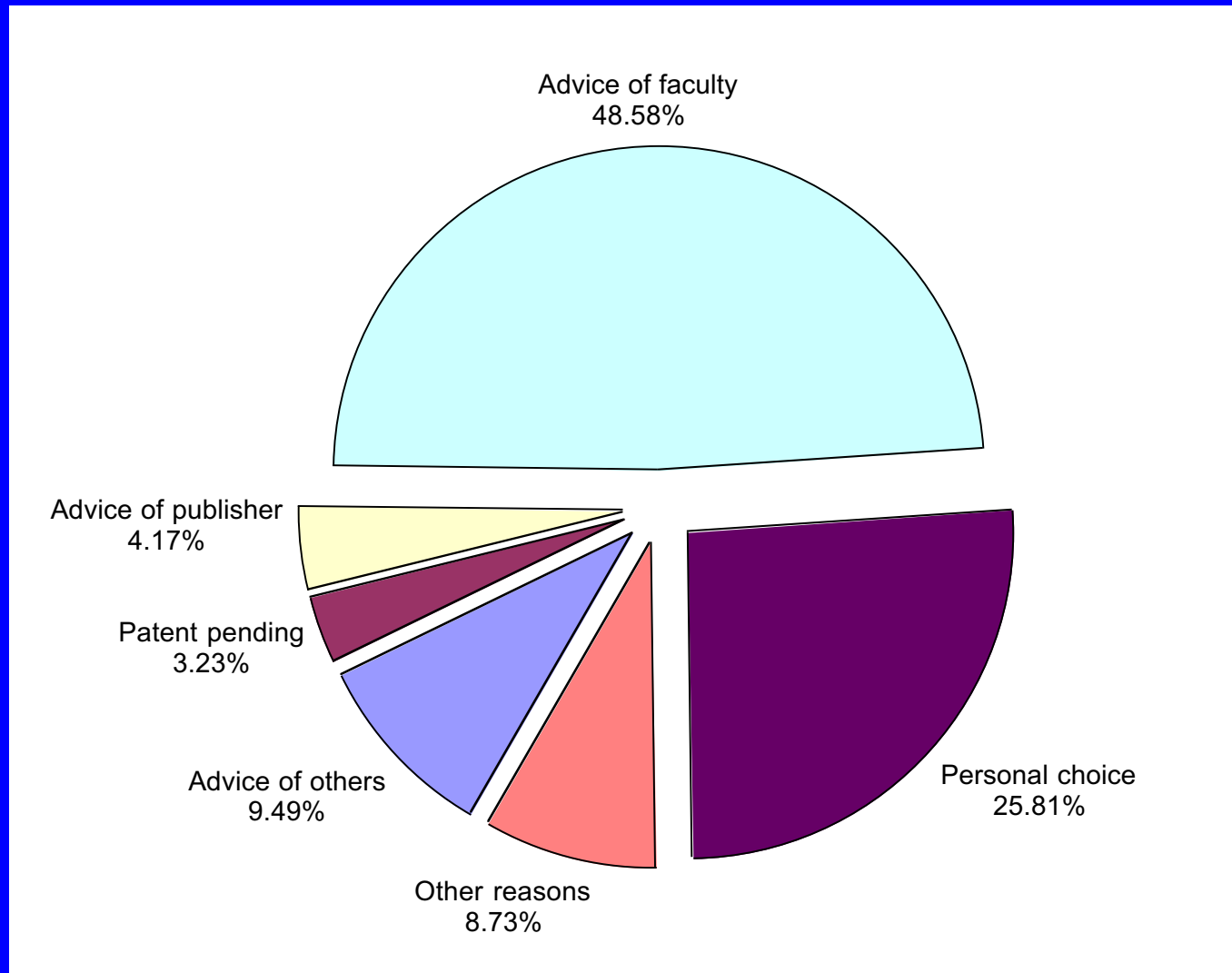
Why are ETDs so popular?

- User surveys
 - 67% found VT ETDs easily
 - 61% found them by searching
 - 22% browsed by department
 - 16% browsed by author
 - 53% downloaded 1 or more ETDs
- Author surveys
 - Conversion and submission processes less difficult than anticipated
 - Over half plan to publish articles from their ETDs
 - Why did they restrict access?

Availability of 4224 VT ETDs



Reasons for Restricted Access



ETDs and Accessibility

- Inaccessible ETDs
 - Patents pending
 - Future publication fears
- Broken links
 - Quality of work remains
 - Similar to out-of-print articles
- Media standards
 - Open source software (e.g., PDF reader)
 - Typical commercial software
 - Few esoteric programs, include original scripts

ETDs and Publishing

- Early controversies waning
- Faculty: prior publication?
 - Protective of future academics
- Surveys of publishers
 - No specific policies largely
 - Consider submissions individually
- VT ETD Alumni
 - None had problems getting published
- Authors
 - Retain some rights, e.g., link to curriculum vitae, online course materials

ETDs and Copyright

- Author's rights
 - Reproduction, modification, distribution, public performance, public display
 - Retain rights
 - Share non-exclusive rights
 - Permit library to store and to provide access
 - Publishers
- Author's obligations: fair use
 - Balance factors or get permission
- Notification: optional

Copyright 2002 by Gail McMillan ALL RIGHTS RESERVED
- Registration: optional
 - Possibly receive greater compensation, with less documentation if filing infringement law suit

ETDs and Long-term Preservation

- Concerns: Access without paper
 - Long term preservation
 - Standard multimedia formats
 - PDF Reader: an open source
 - <http://scholar.lib.vt.edu/theses/archive.html>
- Addressed Concerns
 - Cooperatives
 - OhioLink
 - Why not: OCLC, NDLTD?
 - Commercial options
 - UMI: traditional microfilming
 - Frequent, regular back-ups available on, off-site

Ensuring Access to VT ETDs

- Every 15 minutes back-ups made of newest, not-yet-approved submissions
- Hourly back-ups of newly approved ETDs
- Weekly back-ups of entire ETD collection
- Multiple copies stored on-site and off-site
- NDLTD: let's reciprocate, cooperative mirroring

Lessons from ETDs

- Implementation of new formats slower than expected
 - Text oriented
 - Not planning for online readers
- If you build it, it will get used.
 - Access exceeded expectations
 - Disappointing number are inaccessible
- Remarkable increase in exposure to graduate student research
- Requiring institutions slower than expected (12+)
- No longer experimental
 - Increase in number and diversity of NDLTD institutions

Available at VT

- Information

<http://scholar.lib.vt.edu/theses>

- Automated submission system ready for customization

<http://scholar.lib.vt.edu/ETD-db/>

- Student guidelines, training materials, FAQ's, multimedia educational materials

<http://etd.vt.edu>

- NDLTD: Network educational institutions

- Annual conferences: Berlin 2003, U of Kentucky 2004

<http://www.ndltd.org>

ETD's and the VT Graduate School

David Pluska

Administrative and Program Specialist

Diplomas and Records Management

Ohio State University/Virginia Tech Video Conference

October 24, 2002

Outline

- Introduction
- Process
- Progress
- Trends
- Views
- Future

Process

- Defense
- Approval
- Submission
- Graduate School Review
- Graduate School Approval

Progress

- Research Tools
- Advancing Knowledge
- Preparation for Electronic Formats

Trends

- Research
- Availability
- Speed
- Cost
- Reference

Views

- Student / Author
- Format
- Forms
- Distribution /
Publication
- Help
- Graduate School
- Communication
- Distribution
- Help

Future

- Technology
- Processes
- Flexibility